

ABSTRACT OF THE DISCLOSURE

Methods for protecting circuit device materials, optoelectronic devices, and caps using a
5 reflowable getter are described. The methods, devices and caps provide advantages because
they enable modification of the shape and activity of the getter after sealing of the device. Some
embodiments of the invention provide a solid composition comprising a reactive material and a
phase changing material. The combination of the reactive material and phase changing material
is placed in the cavity of an electronic device. After sealing the device by conventional means
10 (epoxy seal for example), the device is subjected to thermal or electromagnetic energy so that
the phase changing material becomes liquid, and consequently: exposes the reactive material to
the atmosphere of the cavity, distributes the getter more equally within the cavity, and provides
enhanced protection of sensitive parts of the device by flowing onto and covering these parts,
with a thin layer of material.

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